



## Jacksonville EJ Showcase Community Urban Creek Fish Tissue Assessment



# Jacksonville Environmental Justice Showcase Community Project

- EPA focused on 10 cities across the nation
- Jacksonville for the Southeast
- \$100,000 to Seed Efforts



## Concerns Identified by Residents

- Air Quality and Respiratory Health
  - Water Quality, Flooding, and Fish Consumption
  - Contaminated Industrial Sites
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# Water Quality in the Urban Creeks



- People Eat Fish from Hogan Creek and Long Branch
- Asked EPA “Are the Fish Safe to Eat?”

# Multiple Agencies Collaborated to Develop a Monitoring Plan

- Duval County Health Department
- FDOH – Tallahassee
- City of Jacksonville
- FDEP – Northeast District
- U.S. EPA Region 4 (Atlanta & Athens)

# Plan of Analytes

**Table 3: Analytes and Screening Values** (Florida Department of Health's Fish Screening Levels for Recreational Fisherman)

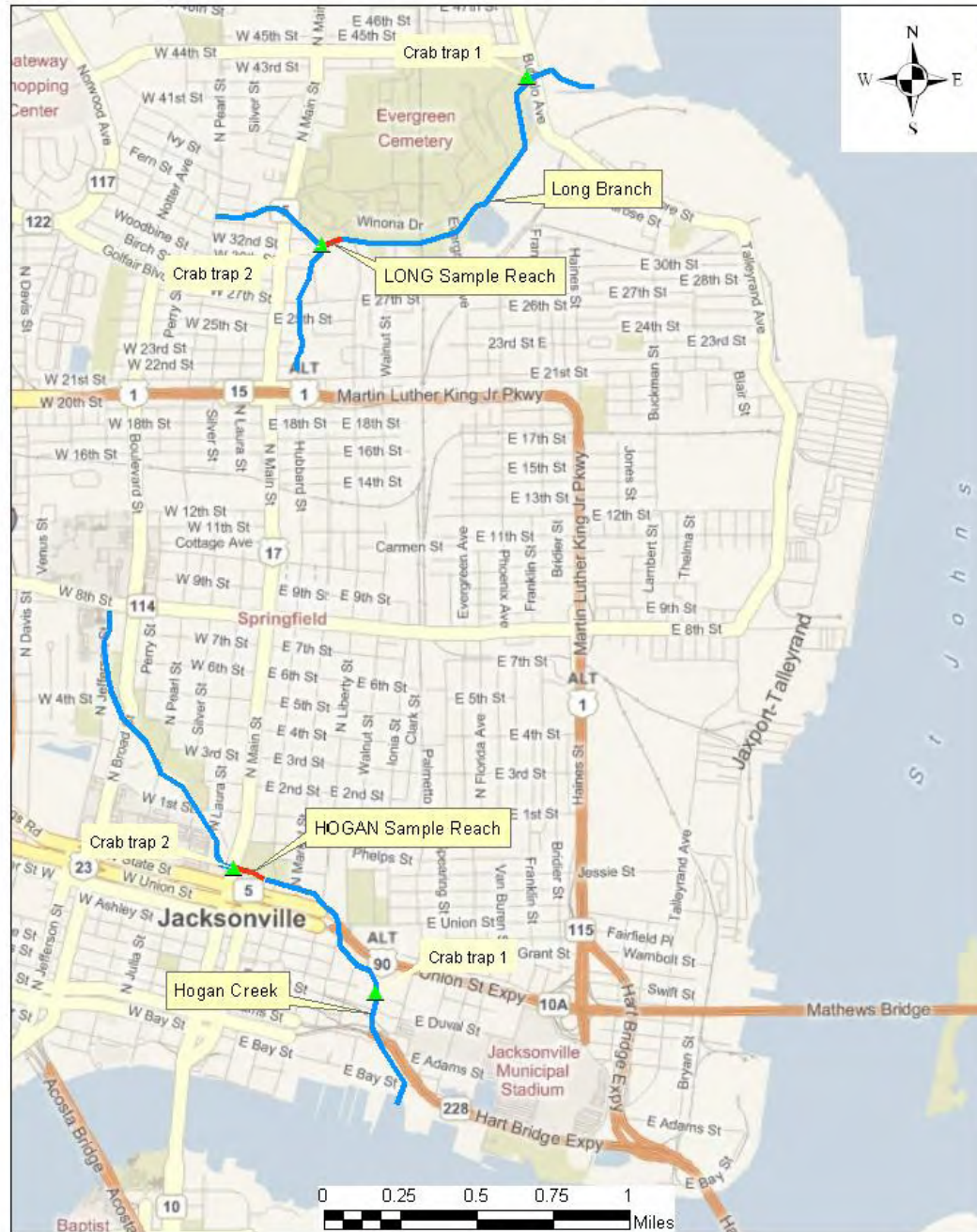
Analytical Group	Analytes	Screening Value
Metals	Arsenic <sup>a</sup>	15 µg/kg
	Cadmium	2 mg/kg
	Mercury <sup>b</sup>	0.2 mg/kg
	Selenium	11 mg/kg
	Lead <sup>c</sup>	Not specified
Organochlorine Pesticides	Technical Chlordane (cis- and trans-chlordane)	17 µg/kg
	Total DDT (Sum of 2,4'-DDD, 4,4'-DDD, 2,4'-DDE, 4,4'-DDE, 2,4'-DDT, 4,4'-DDT)	64 µg/kg
	Dieldrin	1.4 µg/kg
	Endosulfan (I and II)	13 mg/kg
	Endrin	0.7 mg/kg
	Heptachlor epoxide	2.4 µg/kg
	Lindane	17 µg/kg
	Toxaphene	100 µg/kg <sup>f</sup>
PAHs	PAHs <sup>d</sup>	3 µg/kg
PCBs	Total PCBs <sup>e</sup> (sum of PCB congeners or Aroclor equivalents)	45 µg/kg
Dioxin/furans	Dioxin/furans <sup>e</sup>	2 ng/kg

# EPA Sampled from Hogan Creek and Long Branch in December 2010



Figure 1

# Sample Locations





# Contaminants Found

- EPA Lab Report issued 5/25/11
- Found elevated levels of pesticides, PAHs, PCBs, dioxin, and arsenic in fish from Hogan Creek and Long Branch

Full EPA Report can be found at:

- [http://www.epa.gov/region4/ej/Jacksonville\\_EJ\\_FINAL.pdf](http://www.epa.gov/region4/ej/Jacksonville_EJ_FINAL.pdf)
- Google: “EPA Jacksonville Fish”

# Health Advisory

- On 6/16/11 the State Toxicologist, FDOH, recommended a “Do Not Eat” Advisory to DCHD for:
  - Largemouth Bass and Mullet from Hogan Creek for PAHs
  - Tilapia and Largemouth Bass from Long Branch for Dieldrin

# Health Advisory

- The DCHD Issued a Fish Consumption Advisory on 7/5/11
- Should not eat largemouth bass, blue tilapia, and striped mullet due to elevated levels of PAHs and dieldrin.
- Reported that additional chemicals of concern found include polychlorinated biphenyls (PCBs), dioxins, and the pesticides: chlordane, heptachlor epoxide, and inorganic arsenic.



# Community Meetings to Inform the Public

- Community Meetings were held on 7/14/11 to discuss the findings
- Held at two downtown Community Centers in residential areas

# Creekside Signage

- Cooperating Agencies are working on posting signs

